

British-American Navajo - C
SW/4-SW/4 Sec. 5 -Twp. 40N -R30E
Apache County 105

P-M

County Apache

Area Carrizo

Lease No. 14-2D-603-4119

Well

Name British-American 1 Navajo - C

Location NE SW Sec 5 Twp ^{40N}~~40W~~ Range 30E Footage 990 FSL; 990 FWL

Elev 5535 Gr 5545 KB Date 2-15-60 Spud Complete Total Depth 6419

Contractor: Lohmann-Johnson Drilling Company Approx. Cost \$

Drilled by Rotary X
Cable Tool

Casing Size Depth Cement

10 3/4 1171

Production Horizon

Initial Production D & A

REMARKS: See files for tops & DST's.

Elec.

Logs Sonic; Microlog; GRN; IE
Applic Plugging Completion
to Plub X Record X Report

Sample Log Am Strat
Sample Descript X
Sample Set T-1168 P-619
Cores

Water well - accepted by Navajo tribe

Bond Co.

& No. Seaboard Surety Co.

Bond Am't \$ 2,500 Cancelled 5-17-60 Date Organization Report X

Filing Receipt 9213 dated 2-5-60 Well Book X Plat Book X

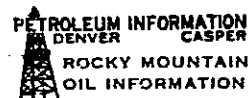
Loc. Plat X Dedication E 1/2 SW 1/4 5-40N-30E

Sample 619

PERMIT NO. 105

Date Issued 1-29-60

ARIZONA
APACHE COUNTY
WILDCAT (W)



Twp 40n-30e
Section 5
ne SW SW
990 n/s 990 e/w

OPR:	British-American Oil Producing	WELL #:	1 Navajo "C"
ELEV:	5545 KB.	DSTS. & CORES:	SPUD: 2-15-60 COMPL: 4-16-60
*TOPS:	Log-Rampix		TD: 6419 PB:
DeChelly 2430		DST 4900-5067, open 1	CSG: 10-3/4" @ 1163 w/100
Organ Rock 2809		hr, gas in 50 min, rec	PERF:
Hermosa 4220		218 GCM, 150 GW&CM,	
Bluff 4875		FP 78-157#, SIP (30 min)	
Desert Creek 5052		1450#, HP 2610#, DS T	
Akah 5200		5101-5338, open 1 hr,	
Barker Creek 5308		gas in 9 min, rec 370	
Lower Hermosa 5503		HGCM w/some distillate	
Molas 5740		FP 125-140#, SIP (30	
Mississippian 5875		min) 1632#, HP 2735#.	BROD. ZONE:
Devonian 6115		DST 6059-6120, open 1	INIT. PROD:
		hr, rec 90 GCM, 1350	
		HGC salt wtr, FP 200#,	
		SIP (30 min) 1905#, HP	D & A.
		3210#. DST 5984-6055, open 1 hr, rec 275 sli GCM,	
		FP 95-115#, SIP (30 min) 1770#, HP 3175#.	

Contr: Lohmann-Johnson.

*For Electric Logs on Rocky Mountain Wells—Ask Us! Log #28864.

Ariz. 5-061330


WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG									
DESIGNATE TYPE OF COMPLETION:									
New Well <input type="checkbox"/>	Work-Over <input type="checkbox"/>	Deepen <input type="checkbox"/>	Plug Back <input type="checkbox"/>	Same Reservoir <input type="checkbox"/>	Different Reservoir <input type="checkbox"/>	Oil <input type="checkbox"/>	Gas <input type="checkbox"/>	Dry <input checked="" type="checkbox"/>	
DESCRIPTION OF WELL AND LEASE									
Operator The British-American Oil Prod. Company				Address P. O. Drawer 330, Farmington, N.M.					
Federal, State or Indian Lease Number or name of lessor if fee lease Navajo "C"				Well Number 1		Field & Reservoir Carrizo Prospect			
Location 990' FSL 990' FWL				County Apache					
Sec. TWP-Range or Block & Survey SW SW Sec. 5-40N-30E, G&SLM									
Date spudded 2-15-60		Date total depth reached 4-13-60		Date completed, ready to produce Dry		Elevation (of hole) feet 5543		Elevation of casing hd. flange feet 5533	
Total depth 6419		P.B.T.D. 1164		Single, dual or triple completion? -		If this is a dual or triple completion, furnish separate report for each completion.			
Producing interval (s) for this completion None				Rotary tools used (interval) 0 to TD		Cable tools used (interval) No			
Was this well directionally drilled? No		Was directional survey made? No		Was copy of directional survey filed? No		Date filed			
Type of electrical or other logs run (check logs filed with the commission) Induction, Gamma, Mirco Log and Sonic						Date filed 7-26-60			
CASING RECORD									
Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)									
Purpose Surface	Size hole drilled 13-3/4	Size casing set 10-3/4	Weight (lb./ft.) 32.75	Depth set 1164	Sacks cement 600	Amt. pulled None			
TUBING RECORD									
Size None	Depth set in.	Packer set at ft.	Size in.	Top ft.	Bottom ft.	Sacks cement			
PERFORATION RECORD									
Number per ft. None	Size & type	Depth Interval		ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, RECORD					
				Am't. & kind of material used					
INITIAL PRODUCTION									
Date of first production None		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump)							
Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity ° API (Corr)			
Tubing pressure	Casing pressure	Cal'd rate of Pro- duction per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio			
Disposition of gas (state whether vented, used for fuel or sold):									
<p>CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the <u>Field Superintendent</u> of the <u>The British-American Oil Prod. Co.</u> (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.</p> <p style="text-align: center;">August 12, 1964</p> <p style="text-align: center;">Date</p> <p style="text-align: center;">Signature <u>Nae R. Stone</u></p> <p>Well released to Mr. Jamison of the Navajo Tribe and he assumed responsibility of placing cap on surface pipe. Well is to be used as a water supply well for the Navajo Tribe. Mr. Bill Shogert of USGS approved the above procedure. For detail see attached composite record.</p>									
Permit No.				<p style="text-align: center;">STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION</p> <p style="text-align: center;">Well Completion or Recompletion Report and Well Log</p> <p style="text-align: center;">Form No. 4 File One Copy</p>					

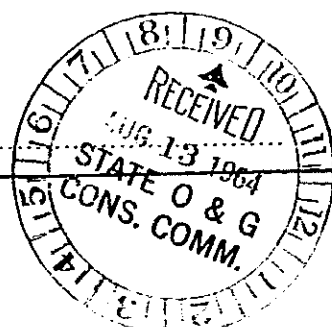
Formation	Top	Bottom	Description*
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Top

Description:

PRODUCTION

PLUGGING RECORD							
Operator The British-American Oil Producing Co.				Address P.O. Drawer 330, Farmington, N.M.			
Name of Lease Navajo "C"			Well No. 1	Field & Reservoir Carrizo Prospect			
Location of Well 990' FSL, 990' FWL			Sec-Twp-Rge or Block & Survey Sec. 5-40W-30E			County Apache	
Application to drill this well was filed in name of Same		Has this well ever produced oil or gas No	Character of well at completion (initial production): Oil (bbls/day) Gas (MCF/day) Dry?				
Date plugged: 4-16-60		Total depth 6419	Amount well producing when plugged: Oil (bbls/day) Gas (MCF/day) Water (bbls/day)		None		
Name of each formation containing oil or gas. Indicate which formation open to well-bore at time of plugging		Fluid content of each formation		Depth interval of each formation		Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount cement.	
See attached							
CASING RECORD							
Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, ripped etc)	Packers and shoes		
10-3/4"	1171	0	1171		Texas Pattern shoe		
Was well filled with mud-laden fluid, according to regulations? Yes				Indicate deepest formation containing fresh water. See attached			
NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE							
Name		Address			Direction from this well:		
Navajo Tribe							
<p>In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required. Well released to Mr. Jamison of the Navajo Tribe and he assumed responsibility of placing cap on surface pipe. Well is to be used as a water supply well for the Navajo Tribe. Mr. Bill Shogert of USGS approved the procedure.</p>							
<p>Use reverse side for additional detail File this form in duplicate with the State of Arizona Oil & Gas Conservation Commission</p>							
<p>CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Field Superintendent of the The British-American Oil Prod. Co. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.</p>							
Date August 12, 1964		Signature  Nae R. Stone			STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION		
					Form No. P-15 Plugging Record File two copies		



DENVER, COLORADO
AUG 10 1964
RECORDED
PRODUCTION

APPLICATION TO ABANDON AND PLUG

FIELD Garrizo Prospect (Wildcat)
 OPERATOR British-American Oil Prod Co ADDRESS Box 180; Denver 1, Colorado
 LEASE NAVAJO WELL NO. C-1 COUNTY Apache
 SURVEY SW, SW, SECTION #5 DRILLING PERMIT NO. #105
 LOCATION 990 Ft from the south line and 990 Ft from the west line of the
SW/4 of Section #5, Twp. 40N, Rge. 30E, Apache County, Arizona.

TYPE OF WELL Dry Hole TOTAL DEPTH 6419' KB
 (Oil, Gas or Dry Hole)

ALLOWABLE (If Assigned)

LAST PRODUCTION TEST OIL (Bbls.) WATER (Bbls.)
 GAS (MCF) DATE OF TEST

PRODUCING HORIZON PRODUCING FROM TO

1. COMPLETE CASING RECORD Ran 1150 ft of 10-3/4 inch, 32.75#, H-40 equipped
with Texas pattern Shoe and Baffle Collar, landed at 1164' KB and cemented
with 600 sax-50-50 poz-mix 2% Gel w/1/4 cu ft Stratacrete per sax followed
by 100 sax neat cement.

2. FULL DETAILS OF PROPOSED PLAN OF WORK Fill hole with heavy Rotary mud with a
40 sax cmt plug at 6419-6300, 40 sax cmt plug at 6200-6100, 78 sax cmt plug
at 5925-5825, 83 sax cmt plug at 4300-4150, 35 sax cmt plug at 2850-2750, 35
sax cmt plug at 2500-2400, 35 sax cmt plug at 1178-1128. Mr. Bill Shogert of
the USGS has approved this procedure and Mr. Jamison of the Navajo Tribe has
assumed the responsibility of placing a steel plate over top of surface casing
as this well is to be completed as a water supply well for the Navajo Tribe.

If well is to be abandoned, does proposed work conform with requirements of Rule 202? Above Exception not,
 outline proposed procedure above.

DATE COMMENCING OPERATIONS April 15, 1960 Box 666

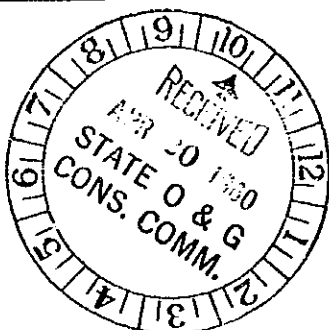
NAME OF PERSON DOING WORK N.R. Stone ADDRESS Farmington, New Mexico

CORRESPONDENCE SHOULD BE SENT TO B-A Oil Prod Co. Box 180; Denver 1, Colorado

NAME Thomas M. Hogan / James H. Stone
 TITLE Dist. Supt. / By Sr. Engineer

Date Approved 4/20/60

W. M. Stone
 STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION



#105

Form 15A

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Application to Abandon and Plug
 Form No. 15A File 2 Copies
 Authorized by Order No. 4-6-59
 Effective April 6, 1959

GEOLOGICAL COMPLETION REPORT

Well Classification: Wildcat
Field or Area: Carriso Area
State and County: Apache Co., Arizona
Operator, Well No. and Farm: British-American #C-1 Navajo
Location: 990 FS & WL of Sec. 5, 40N, 30E.

WELL DATA

Commenced drilling: 2-15-60
Completed drilling: 4-16-60
Contractor: Lohmann-Johnson Drilling Co.
Casing Record: 1150.13' 10-3/4" #40 csg. Landed at 1163.13' KB. Cemented with 100 sac
neat cement.
Elevation: 5535 G.L., 5545 KB.
Total Depth and Datum: 6419' (-874)
PETD, Datum and Formation: -----

COMPLETION DATA

Producing zone: None
Perforations: None
Treatments: None
Initial Production: P & A on 4-16-60
Gravity: SP

Net Pay: None

GOR: -----

GEOLOGICAL DATA

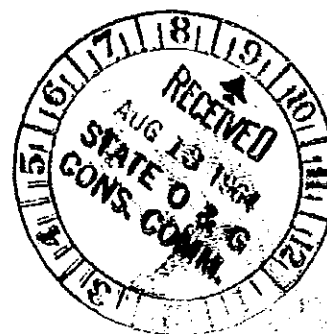
Logging Data

Samples: 10' samples from surface to TD Store at: British-Am. Farmington Office.
Electric Induction: 1166 to 6413
Microlog: 4000 to 6418
Gamma ray-Neutron: 100' to 5078', 5078' to 6417'
Geolograph: Surface to TD
Dipmeter: None
Continucus Logging Service: 3000' to 6419'

Formation Record:

Name	Sample Top	Schl. Top	Schl. Datum	Fluid Content
Morrison on Surf.		2430	+3115 -35	
De Chelly		2809	+2736 -35	
Organ Rock		4220	+1325 -83	
Hermosa	4240	4875	+670	
Bluff	4880	5052	+493	
Desert Creek	5050	5200	+345	
Akah		5308	+237	
Barker Creek		5503	+42	
Lower Hermosa		5740	-195	
Molas	5740	5875	-330 -78	
Mississippian	5876	6115	-570 -1005	
Devonian	6110			
Total Depth 6419' in Devonian (?)				

Tops only
→



GEOLOGICAL COMPLETION REPORT

BRITISH-AMERICAN #C-1 NAVAJO (pg.2)

Core Record:

<u>Core No.</u>	<u>Interval</u>	<u>Formation</u>	<u>Ft. Recovered</u>
1	5356-5412	Barker Creek	54'

Drill Stem Test Record:

DST #1 4900-5067 (Bluff Formation) ISIP (30") 1665. Tool open 60" strong blow when tool was opened, decr. to fair blow at end of test. GTS 50" TSTM Rec 218' GCM, 150' GSW, 150' GSW CM IH 2640; ISIP 1665; FP 78-157. FSIP 1415 (30"); FH 2610.

DST #2 5101-5338 (Desert Creek and Akah Formations) ISIP (30") 1632. Tool open 60" Good strong blow throughout test. GTS 9" TSTM Rec 370' HGCM w/some distillate cut. IHP 2735; ISIP 1632; FP 125-140; FSIP 1632; FHP 2735.

DST #3 6059-6120 (Mississippian) ISIP (30") Tool open 1 hour, final SI (30") Tool opened w/fair blow increasing to good blow by the end of the test. No gas to surface. Recovered 90' of GCM and 1350' of heavily GCSW.

IHHP 3220#
ISIP 2295#
IFP 200#
FFP 675#
FSIP 1905#
FHHP 3210#

Bottom packer did not hold.

DST #4 5984-6055 (Mississippian) ISIP (30") Tool open 1 hour, final SI (30") Strong blow throughout test. No gas to surface. Recovered 275' of slightly GCM.

IHHP 3175#
ISIP 2055#
IFP 95#
FFP 115#
FSIP 1770#
FHHP 3175#

Packers held.



Form 9-331b
(April 1952)

	5	
X		

(SUBMIT IN TRIPLICATE)
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

Indian Agency
Navajo Tribal Council
Allottee
Lease No. **14-20-603-4119**

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	XXX	SUBSEQUENT REPORT OF WATER SHUT-OFF.....
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

January 21, 1960

Navajo "C"

Well No. **1** is located _____ ft. from **N** line and _____ ft. from **E** line of sec. _____
C SW SW Section 5 **40N** **30E** **G. & S. L. M.**
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Carrizo Prospect **Apache** **Arizona**
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **5555** ft. **GL Est.**

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)
To drill and test subject well to the Cambrian formation. Est. TD - 6200'. Surface Casing: 8-5/8" 24# J-55 casing to be set at approx. 400' KB and cemented W/300 sax W/1/4 cu. ft. stratacrete/sack followed W/100 sax neat cement. Use top and bottom plugs. WOC 12 hours.
Production Casing: 5-1/2" 15.3# J-55 casing to be set thru the oil producing zone. Use centralizers and rotating type scratchers thru the pay sands and cement W/150 sax 50-50 Pozmix "A" W/2% Gel. WOC 48 hours. **Coring:** Core Bluff, Desert Creek and Mississippi if warranted. **Testing:** If content of sands based on electric log is questionable, DST's will be taken. **Logging:** Combination ES-Induction Log from TD to surface casing. Detail from TD to approx. 100' above the Bluff. Sonic Log from surface casing to TD. Microlog from top Hermosa to TD. Gamma Ray Neutron from surface to TD. **Drilling Time:** Geolograph from 400' to TD. **Drift Surveys:** At 50' intervals to 400'; thereafter, at 250' intervals. **Standard Depth Measurements:** SLM of DP at approx. 150' above the Bluff, prior to coring, DST and at TD. **Samples:** Collect 10' samples from surface casing to TD. Use mud logging from top of Hermosa to TD.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **The British-American Oil Producing Company**

Address **P. O. Box 180**

Denver, Colorado

By **Thomas M. Hogan**

Title **District Superintendent**

10571

TO THE HONORABLE MEMBERS OF THE
COMMISSIONERS OF THE LAND OFFICE
STATE OF NEW YORK
ALBANY
JANUARY 26 1960
RECEIVED
STATE OF NEW YORK
COMMISSIONERS OF THE LAND OFFICE
ALBANY



APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL ☒ DEEPEN ☐ PLUG BACK ☐

DATE January 28, 1960

NAME OF COMPANY OR OPERATOR
The British-American Oil Producing Company
810 Denver Club BuildingDenver
CityColorado
State

Address

DESCRIPTION OF WELL AND LEASE

Name of lease Navajo "C"	Well number 1	Elevation (ground) 5527 Ungraded
Well location 990' FSL & 990' FWL (give footage from section lines)	Section—township—range or block & survey Section 5-40N-30E G&S.L.M.	
Field & reservoir (If wildcat, so state) Carrizo Prospect - Wildcat	County Apache	
Distance, in miles, and direction from nearest town or post office Approx. 3 mi WSW of Tes Nos Pes		
Nearest distance from proposed location to property or lease line: 4290 feet	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: 1st Well on Lease feet	
Proposed depth: Approx. 6200'	Rotary or cable tools Rotary	Approx. date work will start Feb. 5 to Feb. 15, 1960
Number of acres in lease: 2560 Acres	Number of wells on lease, including this well, completed in or drilling to this reservoir: None	
All Sections 5-6-7-8 - 40N - 30E		
If lease, purchased with one or more wells drilled, from whom purchased:	Name	Address

Status of bond
Blanket

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone)

To drill and test the subject well to the Cambrian Formation.

* Fill in Proposed Casing Program on other side

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the District Superintendent of the The British-American Oil Producing (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date

Signature

Thomas M. Hogan

Permit Number: **105**
Approval Date: **January 29, 1960**
Approved By: *M. Wharton*
Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.
See instruction on Reverse Side of Form

STATE OF ARIZONA OIL & GAS
CONSERVATION COMMISSION
Application to Drill, Deepen or Plug Back
Form No. P-1 File two copies
Authorized by Order No. **4-6-59**
Effective **April 6,** 19 **59**

INSTRUCTIONS

READ CAREFULLY AND COMPLY FULLY

For the purpose of this determination attach hereto a neat, accurate plat, map or sketch of this lease, section, block or lot locating thereon the proposed site for this location. Plat shall be drawn to a scale which will permit the facile observation of all pertinent data. Show distances of the proposed well from the two nearest lease and section lines, and from the nearest wells on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well, and the names and addresses of all adjoining lease or property owners.

In event plat is filed for the purpose of designating the drilling and producing unit, or proration unit, on which the proposed well is to be drilled, the boundaries of such unit shall be shown, also the boundaries of all other such units attributed to other wells on the same lease completed in or drilling to the same reservoir. The acreage contained within each unit shall also be shown.

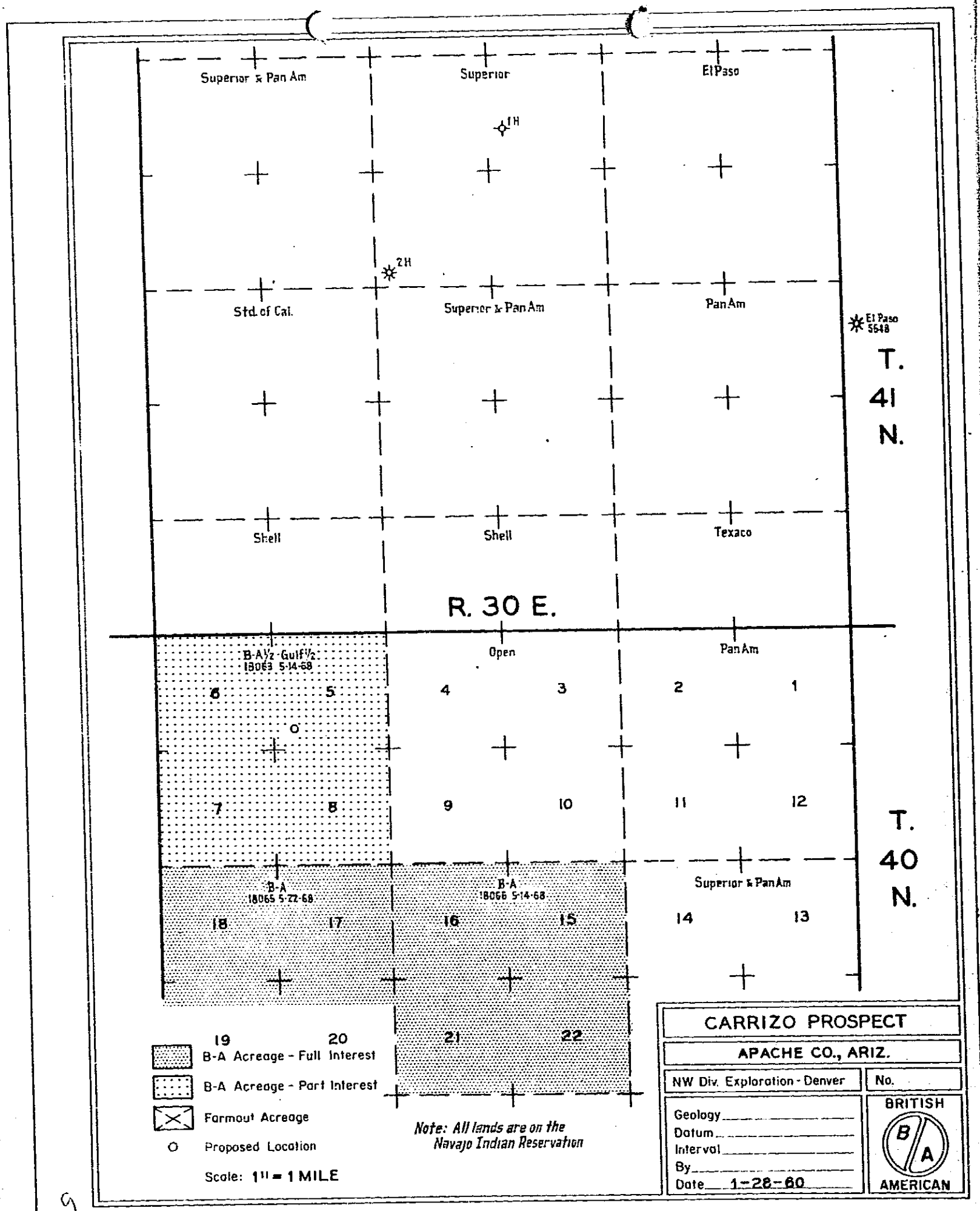
Do not confuse survey lines with lease lines. The sketch or plat should show your entire lease if possible. If it is not practical to show the entire lease and the plat shows only a section, block or lot out of your lease, you should clearly show that same is only a part of the lease.

Designate scale to which plat or sketch is drawn. Also designate northerly direction on the sketch or plat.

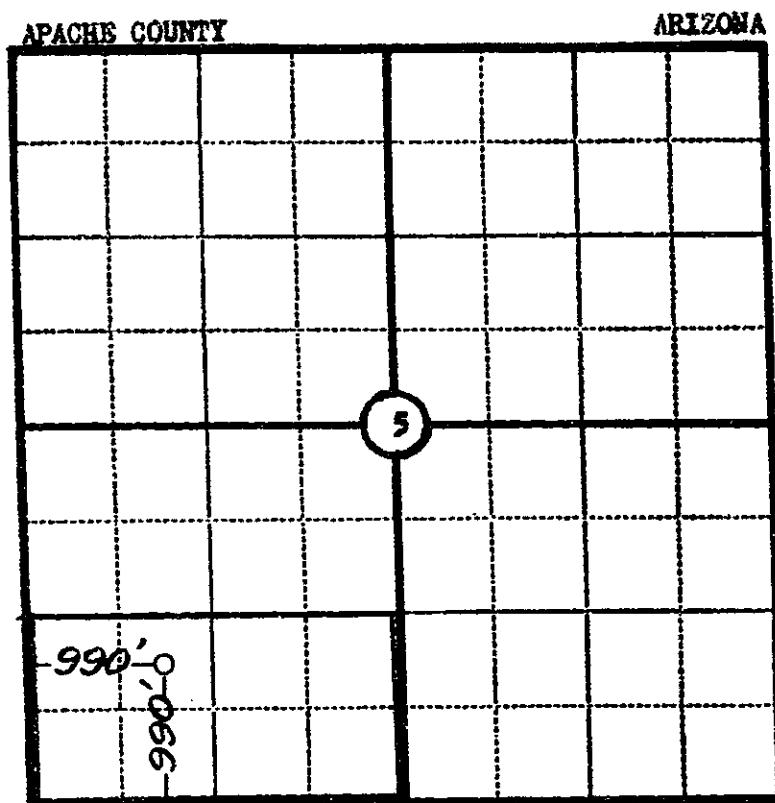
PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
8-5/8" OD	22.7#	Armco SW	Surf.	Approx. 400'	Top to Bottom	Approx. 400
5-1/2" OD	15.5#	Smls. J-55	Surf.	Approx. 6200'	TD to Above Highest Pay Zone	Approx. 150

Protect all fresh water zones.



Company BRITISH AMERICAN OIL PRODUCING COMPANY
Lease NAVAJO "C" Well No. 1
Sec. 5, T. 40 N., R. 30 E., G & S R M
Location 990' FROM THE SOUTH LINE AND 990' FROM
THE WEST LINE.
Elevation 5527.0 UNGRADED GROUND.



Scale—4 inches equal 1 mile

This is to certify that the above plat was prepared from field note of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.



Seal:

Registered Land Surveyor.
James P. Leese
Arizona Reg. No. 1849

Surveyed

22 January 1960

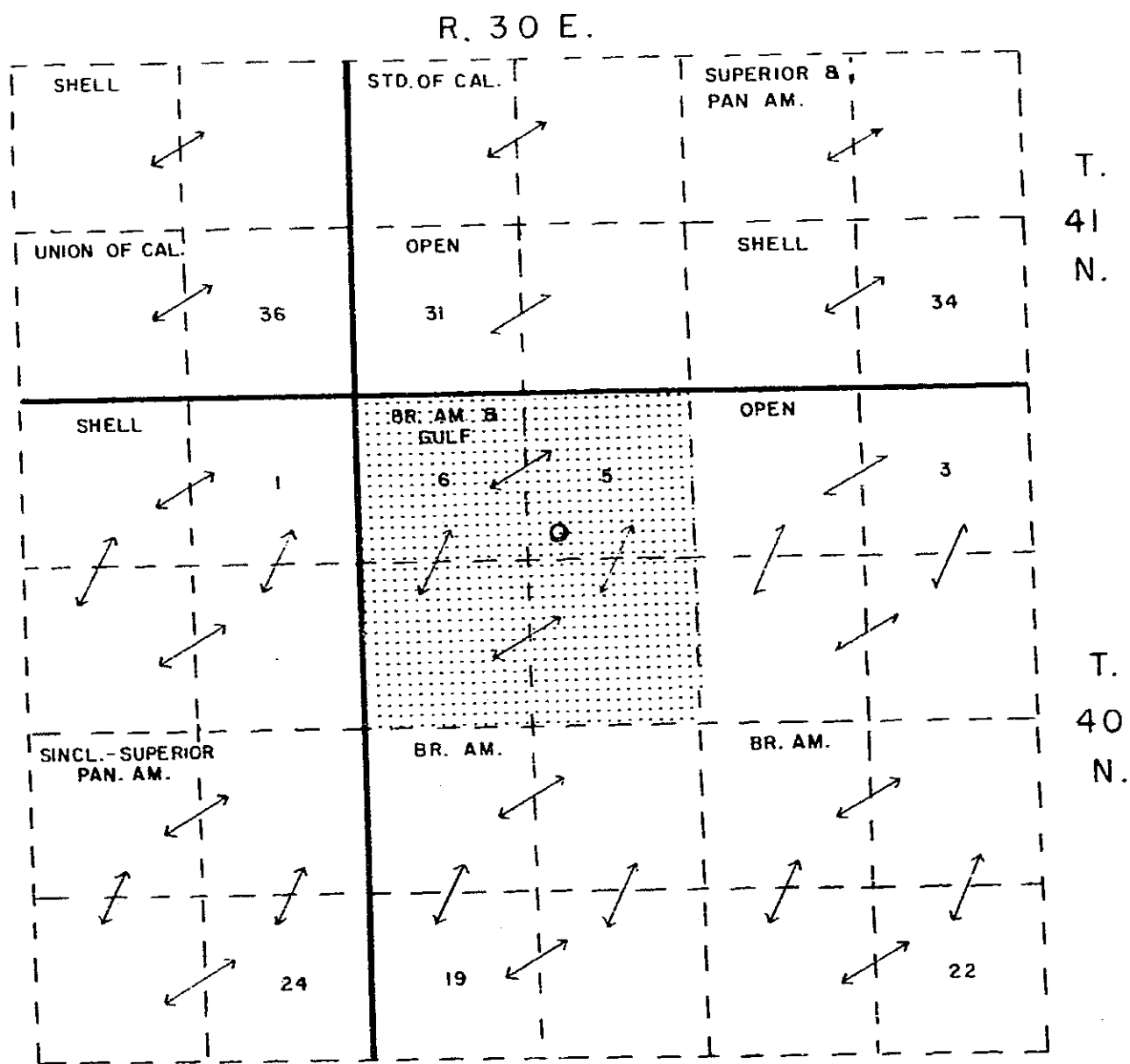
SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

10510

Robb
4

RECEIVED
PRODUCTION DEPARTMENT
JAN 27 1960
FARMINGTON, NEW MEXICO

RECEIVED
FEB 4 1960
PRODUCTION
DENVER, COLO.



AREA PLAT

CARRIZO PROSPECT
APACHE CO., ARIZ.

SCALE 1" = 1 MILE

FEB. 5, 1960

BOND

KNOW ALL MEN BY THESE PRESENTS,

That
we: THE BRITISH-AMERICAN OIL PRODUCING COMPANY
of the Dallas in the Texas
County of: Dallas State of: Texas
as Principal,
and SEABOARD SURETY COMPANY
of NEW YORK, NEW YORK
authorized to do business within the State of Arizona,

as surety, are held and firmly bound unto the State of Arizona in the penal sum as indicated, lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The condition of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to wit:

(May be used as blanket bond or for single well)
Navajo "C" #1 SW SW Section 5-40N-30E Apache County, Arizona

NOW, THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State and the rules, regulations and orders of the Oil & Gas Conservation Commission, especially with reference to the requirements of A. R. S. 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil & Gas Conservation Commission all notices and records required by said Commission, in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

Penal sum of \$2,500.00

Witness our hands and seals, this 28th day of January, 1960

CANCELLED

THE BRITISH-AMERICAN OIL PRODUCING COMPANY

Claude E. Loy
ATTORNEY-IN-FACT

Principal

DATE 5-17-60

Witness our hands and seals, this 1st day of February, 1960

B. W. Burns
RESIDENT AGENT
PHOENIX, ARIZONA

SEABOARD SURETY COMPANY

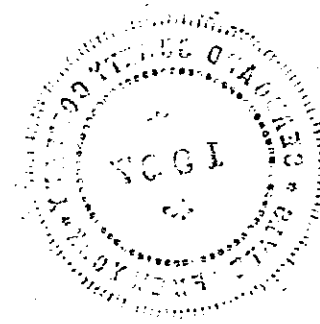
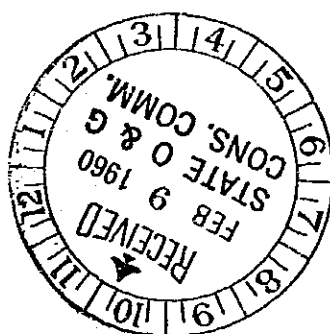
Yone M. Shaw
Attorney-in-fact

Surety

(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany the bond.)

Approved _____
Date _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION



Cert. 1 Copy

Form 147 Rev. 1953

No. 4282

SEABOARD SURETY COMPANY

HOME OFFICE

100 WILLIAM STREET, NEW YORK 38, N.Y.

Power of Attorney

Know all Men by these Presents: That SEABOARD SURETY COMPANY, a corporation of the State of New York, has made, constituted and appointed and by these presents does make, constitute and appoint David B. Noel or Rose M. Shaw,

of Dallas, Texas, its true and lawful Attorney-in-Fact, to make, execute and deliver, on its behalf as Surety, bonds, undertakings and other obligatory instruments of similar nature as follows: **Without Limitations.**

Such bonds, undertakings and obligatory instruments for said purposes, when duly executed by the afore-said Attorney-in-Fact, shall be binding upon the said Company as fully and to the same extent as if such bonds, undertakings and obligatory instruments were signed by the duly authorized officers of the Company and sealed with its corporate seal; and all the acts of said Attorney-in-Fact, pursuant to the authority hereby given, are hereby ratified and confirmed.

This appointment is made pursuant to the following By-Laws which were duly adopted by the Board of Directors of the said Company on December 8th, 1927, and are still in full force and effect:

ARTICLE XI. Paragraph 6:

"Attorneys-in-Fact, Departmental Managers, Branch Managers, Agents, Clerks, and other employees may be appointed or engaged by the President or a Vice-President, subject to the control of the Directors, upon such terms and with such powers and duties as he may prescribe."

Article XVII, Paragraph I. "All policies, bonds, recognizances, stipulations and all underwriting undertakings shall be valid:

- (a) When signed by the President, or the First Vice-President, or a Vice-President, or a Resident Vice-President, or a Departmental Manager and the Secretary, or an Assistant Secretary, or a Resident Assistant Secretary, or other duly authorized official or agent of the Company, and when sealed with the seal of the Company where required by law; or
- (b) When executed by an Attorney-in-Fact."

In Witness Whereof, SEABOARD SURETY COMPANY has caused these presents to be signed by its Vice-President, and its corporate seal to be hereunto affixed and duly attested by its Assistant Secretary, this 3rd day of March, 1958

Attest:

SEABOARD SURETY COMPANY,
By

(Seal) B. C. Rode
Assistant Secretary

Lillian Miller
Vice-President

STATE OF NEW YORK }
COUNTY OF NEW YORK } ss.:

On this 3rd day of March, 1958, before me personally appeared F. E. Schiele Vice-President of SEABOARD SURETY COMPANY, with whom I am personally acquainted, who, being by me duly sworn, said that he resides in the State of New Jersey; that he is Vice-President of SEABOARD SURETY COMPANY, the corporation described in and which executed the foregoing instrument; that he knows the corporate seal of the said Company; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Company; and that he signed his name thereto as Vice-President of said Company by like authority.

(Seal)

STATE OF NEW YORK }
COUNTY OF NEW YORK } ss.:

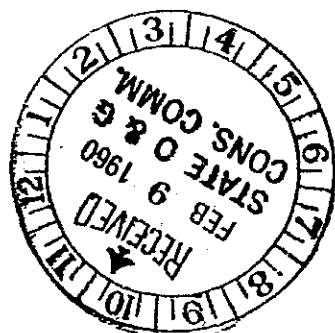
I, Paul Gillen
SEABOARD SURETY COMPANY, do hereby certify that the above and foregoing is a true and correct copy of a power of attorney executed by said SEABOARD SURETY COMPANY, which is still in full force and effect.

Lillian Miller
State of New York Notary Public
No. 03-2711300 Qualified in Bronx County
Cert. filed in New York County
Commission Expires March 30, 1959.
Asst. Secretary of

In Witness Whereof, I have signed this certificate at New York, New York, this 1st day of February, 1960.

Paul Gillen
Assistant Secretary





THE BRITISH-AMERICAN OIL PRODUCING COMPANY

Production & Engineering
Departments
P. O. Drawer 330
Farmington, New Mexico

August 12, 1964

State of Arizona
Oil & Gas Conservation Commission
Capitol Annex, Room 202
1624 West Adams Street
Phoenix, Arizona

Gentlemen:

Re: Navajo "C" No. 1
File 105

In accordance with your memorandum dated August 4, 1964, please find attached Form No. 4, Well Log and Form No. P-15, Plugging Record for captioned well. Also enclosed are copies of logs run on this particular well.

We sincerely regret the delay in filing these forms and if additional information is desired, please advise.

Yours very truly,

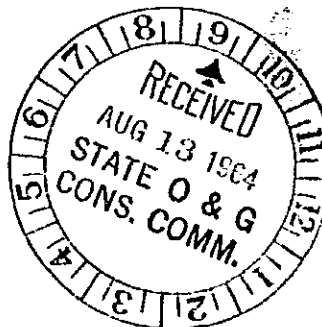
THE BRITISH-AMERICAN OIL PROD. CO.

Nae R. Stone
Nae R. Stone, Field Superintendent

CML:s

Encl.

cc: Mr. Thomas M. Hogan



STATE of ARIZONA
OIL and GAS CONSERVATION COMMISSION
CAPITOL ANNEX
ROOM 202
1624 WEST ADAMS STREET
PHOENIX, ARIZONA

COMPANY British American Oil Producing Company DATE 8-4-1964
RE: WELL NAME & NUMBER: Navajo "C" #1
LOCATION: SECTION 5 TWP. 40N R. 30E COUNTY Apache
FILE NUMBER 105

Gentlemen:

We have reviewed our files and find that we need the below checked item (s) in order to complete same. Will you please fill in the enclosed form (s), at your earliest convenience, and return them to this office. May we remind you that your bond (# XXXXXXXXXXXXXXXXXXXX),

issued by XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX can be forfeited for failure to comply.

In addition we request a copy of any log run on this (~~these~~) well (s).

Your cooperation is appreciated. If we may be of service to you please advise.

Yours very truly,

Bill Cooper

Bill Cooper
Records Section

Completion Record X

Plugging Record X

Well Log X
cc/Bonding Company

Application to plug and abandon

THE BRITISH-AMERICAN OIL PRODUCING COMPANY

Production and
Engineering Department
P. O. Box 1666
Farmington, New Mexico

May 23, 1960

Mr. D. A. Jerome, Executive Secretary
Oil and Gas Conservation Commission
State of Arizona
3500 North Central, Suite 312
Phoenix, Arizona

Re: Navajo "C" #1 Well
Section 5-40N-30E
Apache County, Arizona

Dear Sir:

This confirms our telephone conversation of April 25, 1960, in which you advised us that it would not be necessary for a British-American representative to attend the Commission meeting of April 27, 1960, due to the fact that the hole was plugged and abandoned. The Navajo Tribe will take over the unplugged portion of this hole to use for a water well.

You also stated then that all legal matters were ended with the dry hole.

Your cooperation has been appreciated.

Very truly yours,

THE BRITISH-AMERICAN OIL PRODUCING CO.

Nae R. Stone

Nae R. Stone

Field Superintendent

JMW:j

cc: Mr. T. M. Hogan

#105

May 17, 1960

Mr. Gordon Strom
c/o The British-American Oil Producing Company
P. O. Box 180
Denver 1, Colorado

Dear Mr. Strom:

We would appreciate it if you could write us a letter stating that on April 25, 1960, you had talked to the undersigned requesting advice regarding attendance at the Commission meeting on Wednesday, April 27, 1960. You might state that I advised you that it was not necessary to attend in view of the fact that your hole was dry, abandoned, and plugged, and that the unplugged portion of said hole had been taken over by the Navajo Tribe for a water well.

You might also state that I advised you that the dry hole ended all legal matters and that your attendance at the meeting was not necessary.

We will thank you in advance for writing this letter, as one of our Commissioners felt that we should have such a letter from you in our file.

Very truly yours,

D. A. Jerome
Executive Secretary

DAJ:gk

XXXXXXXXXXXXX

April 11, 1960

Anthony T. Deddens
Member

Mr. Thomas M. Hogan,
District Superintendent
THE BRITISH-AMERICAN OIL PRODUCING COMPANY
Denver Club Bldg., P. O. Box 180
Denver 1, Colorado

Dear Mr. Hogan:

This will advise you that the Oil and Gas Conservation Commission is holding its regular meeting on Wednesday, April 27, 1960, at 9 A. M., in the offices of the Commission, 3500 N. Central Ave., Suite 312, Phoenix, Arizona.

We should like to have a representative from The British-American Oil Producing Company at this meeting.

Yours very truly,

D. A. Jerome,
Executive Secretary

DAJ:mar

#105

VIA AIR MAIL

April 21, 1960

Mr. Thomas M. Hogan,
District Superintendent
THE BRITISH-AMERICAN OIL PRODUCING COMPANY
P. O. Box 180
Denver 1, Colorado

RE: Navajo "C" #1 Well
Sec. 5-40N-30E
Apache County, Arizona

Dear Mr. Hogan:

We return herewith, an Approved Copy of Form
No. 15-A, Application to Abandon & Plug the
above well.

We sincerely hope you found sufficient geol-
ogical information and encouragement from
this test to continue your drilling program
in this state.

If we can be of assistance, please call.

Yours very truly,

W. F. Maule,
Petroleum Engineer

WFM:mmr

Enclosure:

3/2/60 TO BE DELIVERED PERSONALLY BY R. JEROME TO:
LESLIE C. HARDY, Assistant to Attorney General

February 29, 1960

Honorable Wade Church
THE ATTORNEY GENERAL
State of Arizona
State Capitol
Phoenix, Arizona

IN RE: Application of Rule No. 105 (A) and
(D) Rules and Regulations - Oil &
Gas Conservation Commission.

Dear Mr. Church:

The British-American Oil Producing Company and Gulf Oil Company jointly acquired, by lease purchase, from the Navajo's oil and gas leases comprising 2,560 acres. Specifically, these leases cover all of Sections 5-6-7-8 in Twp. 40 N., R. 30 E., G. & S. R. M., Apache County, Arizona. With respect to this acreage British-American has been designated the operator.

On or about January 22, 1960, British-American staked a well location in the center of the SW-SW Section 5, 40 N., 30 E., Apache County, Arizona. This said location would strictly comply with our Rules and Regulations. (Section 105 (A) and (D) Rules). Operator's field representative reported to his company that the location as staked "falls in a ravine and an extremely rugged and rocky terrain. To prepare this location for drilling would be prohibitive cost wise; would require an excessive amount of blasting, grading, filling and leveling; and, in general, is an undesirable spot. We therefore request permission to move the location to a point 990 feet from South Line and 990 feet from West Line of Section 5, which will still be a costly location to prepare, but is much more desirable than the center of the 40 acres now staked." Several telephone conversations were had with British-American's Denver office, regarding a change of location. This is an off-pattern location, or an unorthodox location.

Due to contractual commitments for a drilling rig and road building it was imperative that a decision be reached and communicated to British-American forthwith. Our Rules permit the granting of an exception in such cases. Therefore, Mr.

#105

Honorable Wade Church
February 29, 1960
Page Two

M. F. Wharton, Commission Chairman, by telegram, dated
January 29, 1960, approved British-American's new location,
to-wit:

"990' FSL & 990' FWL, Sec. 5, 40 N., 30 E.
Apache County, Arizona"

Pursuant to Section 105 (D) of the Rules, British-American
filed our Form No. P-1, with their new location thereon.
Proper plats were furnished, showing the requisite informa-
tion, a copy of which is attached and made a part hereof.

The crux of the situation is this: A notice of hearing was
not published, pursuant to the Rules, for the reason that
"adjoining leasees are not affected thereby." The plat
clearly shows that British-American own all surrounding
and contiguous leases. Their well site is in the center
of their block. If a hearing would be had, British-American
would, in our opinion, be the only necessary parties. If
this premise is sound, then British-American, having re-
quested the location change, the only question to be heard
at a hearing would be moot and idle ceremony. This would
involve a waste of time and expense and serve no useful
purpose.

The Navajo Tribe and the United States Geological Survey
office, at Farmington, New Mexico, approved this new location.
The Commission did not desire, at this time, to test the
question of whether Arizona, under its "police powers" could
require drilling operations to conform to our Rules and Regu-
lations. There has never been, to my knowledge, an adjudica-
tion of this specific point. We feel the Navajo and the
United States Geological Survey will cooperate with our
Commission.

Arizona critically needs every exploratory well it can get
drilled, on or off the Reservation. The Indian question has
many ramifications, including the taxation of production, so
we felt, under the exigency of the subject case, it was proper
to grant a change of location.

Our query now is:

Must we have a belated hearing to approve the granting of the
unorthodox location, under the facts and circumstances presented
hereinabove?

#105

Honorable Wade Church
February 29, 1960
Page Three

Copies of British-American's letters and plats, together with a copy of our Rules and Regulations, are herewith enclosed, to aid you in rendering your opinion.

If we can be of assistance, kindly advise us.

Yours very truly,

D. A. Jerome,
Executive Secretary

DAJ:mar

Enclosures:

cc: Mr. M. F. Wharton, Chairman
OIL & GAS CONSERVATION COMMISSION

cc: Senator Lynn Lockhart
STATE SENATOR
Phoenix, Arizona

#105

THE BRITISH-AMERICAN OIL PRODUCING COMPANY

DENVER CLUB BUILDING

DENVER 1, COLORADO

PRODUCTION & ENGINEERING DEPT.

ADDRESS ALL CORRESPONDENCE TO
POST OFFICE BOX 180

February 6, 1960

Arizona Oil & Gas Conservation Commission
of the State of Arizona
State Office Building - Suite 312
3500 North Central Avenue
Phoenix, Arizona

Attention: Mr. Jerome

Re: Application for Permission to Drill
an Unorthodox Location
Navajo "C" #1 - SW SW Sec. 5-40N-30E
Apache County, Arizona

Gentlemen:

In accordance with Rule 105, (a) and (d), of the Statewide Rules and Regulations of the State of Arizona, effective April 6, 1959, we herewith make application for permission to drill a well at a location closer than 560' to the nearest boundary line of the eighty (80) acre drilling unit on which the well is to be located.

Accompanying this application is a copy of the surveyor's plat on which is outlined the eighty (80) acre unit to be assigned to the subject well. Also included, in accordance with rules and regulations, are three copies of an area plat on which is shown all adjoining, surrounding properties. As can be noted from this plat, there are no other completed, drilling and/or permitted wells on the subject property and to the best of our knowledge and belief, there are no other such wells on any of the other adjoining properties.

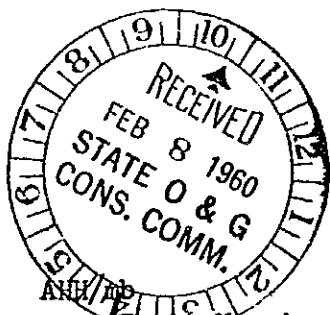
Our request for permission to drill closer than 560' to a boundary line of the drilling unit is based solely upon topographical and cost reasons. The location, as originally proposed, i.e. 660' FSL and 660' FWL of Section 5, fell in a deep ravine and would have been almost impossible to drill. The now proposed location, 990' FSL and 990' FWL of Section 5, is the nearest desirable location both from a topographical standpoint and from a cost standpoint.

We shall appreciate very much receiving your formal approval of the unorthodox location at your earliest possible convenience. Form No. P-1, Intent to Drill, and \$25.00 permit fee have previously been submitted to your office. Your consideration in this matter is sincerely appreciated.

Yours very truly,

THE BRITISH-AMERICAN OIL PRODUCING COMPANY

Thomas M. Hogan
Thomas M. Hogan
District Superintendent



cc: F. A. Norris, N. R. Stone
USGS - Farmington, New Mexico

THE BRITISH-AMERICAN OIL PRODUCING COMPANY

DENVER CLUB BUILDING

DENVER 1, COLORADO

PRODUCTION & ENGINEERING DEPT.

ADDRESS ALL CORRESPONDENCE TO
POST OFFICE BOX 180

January 22, 1960

Oil and Gas Conservation Commission
of the State of Arizona
State Office Building
Phoenix, Arizona

Attention Mr. Jerome

Re: Navajo "C" #1 - Intent to Drill
SW SW Section 5-40N-30E
Apache County, Arizona

Gentlemen:

We have this date staked the subject exploratory location in the
C SW SW Section 5-40N-30E, Apache County, Arizona.

In accordance with telephone conversation between Mr. Hairgrove
of British-American and Mr. Jerome of the Arizona Commission, we
enclose herewith our Sight Draft No. F-2526 in the amount of \$25.00
together with two copies of U.S.G.S. Form 9-331b, setting forth our
plans for subject test.

Our field representative has reported to us that the location as
staked falls in a ravine and an extremely rugged and rocky terrain.
To prepare this location for drilling would be prohibitive cost wise;
would require an excessive amount of blasting, grading, filling and
levelling; and, in general, is an undesirable spot. We therefore
request permission to move the location to a point 990 feet from South
Line and 990 feet from West Line of Section 5, which will still be
a costly location to prepare, but is much more desirable than the
center of the 40 acres now staked.

We will appreciate very much receiving approval to move this location
as soon as possible.

As a matter of information, arrangements are being made with our
General Office in Dallas, Texas, for the filing of the Organization
Report and for the bonding requirements required by Commission Rules
and Regulations. As soon as we receive a supply of your forms, we
will submit an Intent to Drill this well on the prescribed form.

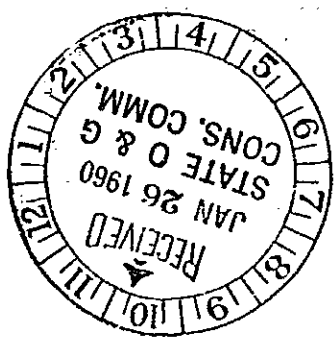
Very truly yours,

THE BRITISH-AMERICAN OIL PRODUCING COMPANY

Thomas M. Hogan
Thomas M. Hogan

District Superintendent

#105
AHH:ls



Philosophy
(4)

THE BRITISH-AMERICAN OIL PRODUCING COMPANY

Production Department
P. O. Box 1666
Farmington, New Mexico

*Fwd Rules
Sent
2/5/60*

January 22, 1960

Arizona Oil Conservation Commission
State Capitol Building
Phoenix, Arizona

Gentlemen:

We would greatly appreciate it if you would forward to this office at your earliest convenience a copy of the Arizona Rules and Regulations for oil and gas wells.

Very truly yours,

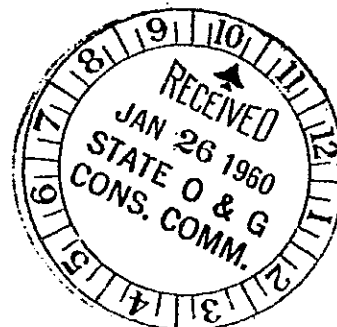
THE BRITISH-AMERICAN OIL PRODUCING CO.

✓ Nae R. Stone, Field Superintendent

Nae R. Stone

JMW:j

cc: Mr. T. M. Hogan



#105

January 22, 1960

Aubrey Hairgrove
British-American Oil Co.
P. O. Box 180
Denver, Colo.

Dear Mr. Hairgrove,

We are forwarding the enclosed forms to familiarize your organization with our requirements. We ask you to complete the organization report and form P-1 bond and return to us. All forms submitted in triplicate. On this wall, we will complete form P-1 application for permit to drill and forward you a file copy.

Yours very truly,

William F. Maule,
Petroleum Engineer

WFM/eg
Enclosures:

#105